CLAIMS

- 1. A piezoelectric loudspeaker comprising:
 - a diaphragm;
- a first piezoelectric material provided in a first area of the diaphragm; and
 - a second piezoelectric material provided in a second area of the diaphragm different from the first area, second piezoelectric material having a sound reproduction frequency range different from band from a sound reproduction frequency range of the first area.

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2. The piezoelectric loudspeaker according to claim 1, wherein the first and second piezoelectric materials include first and second piezoelectric thin films, respectively.

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- 3. The piezoelectric loudspeaker according to claim 1, wherein the first and second areas have sizes different from each other.
- 4. The piezoelectric loudspeaker according to claim 1, wherein the first and second piezoelectric materials have sizes different from each other.

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5. The piezoelectric loudspeaker according to claim 1, wherein the first and second piezoelectric materials are provided on a first face of the diaphragm.

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6. The piezoelectric loudspeaker according to claim 5, further comprising a frame body provided on a second face of the diaphragm and provided around the first and second areas.

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7. A loudspeaker system comprising:

the piezoelectric loudspeaker according to any one of claims 1 to 6; and

another loudspeaker having a sound reproduction frequency range lower than the sound reproduction frequency ranges of the first and second areas of the piezoelectric loudspeaker.

8. An electronic device comprising:

the piezoelectric loudspeaker according to any one of claims 1 to 6; and

a sound source connected to the piezoelectric loudspeaker.